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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/346,277	07/01/1999	SHIN AOKI	RCOH-1013	2216

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KNOBLE, YOSHIDA & DUNLEAVY
EIGHT PENN CENTER
SUITE 1350, 1628 JOHN F KENNEDY BLVD
PHILADELPHIA, PA 19103

EXAMINER

WISDAHL, ERIC D

ART UNIT PAPER NUMBER

2615

DATE MAILED: 02/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/346,277

Applicant(s)

AOKI, SHIN

Examiner

Eric D Wisdahl

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1 – 19 have been considered but are moot in view of the new ground(s) of rejection.

It is noted that the applicant has failed to argue or amend the independent Claim 20. It is further noted that Applicant has not replied to the office rejection of Claims 1 – 20 under Adams Jr. However, since the independent claims 1 and 12 have been amended, this is seen as an argument that Adams Jr. does not disclose the newly presented limitations.

Drawings

The drawings were received on 27 January 2004. These drawings are accepted.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 – 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Adams, Jr. et al. (U.S. Patent 5, 652, 621).

Regarding Claim 1, Adams, Jr. discloses the method of correcting data representing abrupt intensity gradient within a predetermined set of sampled areas, comprising the steps of:

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- Determining a direction of the abrupt intensity gradient of RGB data (Column 1 lines 45 – 50, Column 5 line 65 – Column 7 line 17);
- Selecting a set of orientation-sensitive correction coefficients based upon the direction from predetermined sets of the correction coefficients (Column 5 line 65 – Column 7 line 17); and
- Correcting the data based upon the selected set of the correction coefficients to perform a sum of product operation on the RGB data (Column 5 line 65 – Column 7 line 17).

Regarding Claim 2, Adams, Jr. discloses:

- The abrupt intensity gradient as stripes (Column 5 line 65 – Column 6 line 39).

Regarding Claim 3, Adams, Jr. discloses:

- The direction of the stripes as horizontal (Column 5 line 65 – Column 6 line 39).

Regarding Claim 4, Adams, Jr. discloses:

- The direction of the stripes as vertical (Column 5 line 65 – Column 6 line 39).

Regarding Claim 5, Adams, Jr. discloses:

- The sampled areas are covered by a planar array of color area image sensors (Column 1 lines 45 – 50).

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Regarding Claim 6, Adams, Jr. discloses:

- The color area image sensors generate primary colors (Column 1 lines 45 – 50).

Regarding Claim 7, Adams, Jr. discloses:

- For each primary color, the set of correction coefficients is selected based on the direction of the intensity gradient (Column 5 line 65 – Column 7 line 17, Column 8 line 4 – 56, Further, it is seen that since the chroma value interpolation is based upon the interpolated green value, which are in turn based upon the direction of the abrupt gradient, that the chroma value interpolation is itself based upon the direction of the abrupt gradient).

Regarding Claim 8, Adams, Jr. discloses:

- The direction includes a vertical type and a horizontal type (Column 6 lines 30 – 39).

Regarding Claim 9, Adams, Jr. discloses:

- The set of correction coefficients is selected additionally based upon a pattern of the planar array of the color area image sensors (Column 8 lines 4 – 56).

Regarding Claim 10, Adams, Jr. discloses:

- The direction includes a vertical type, a horizontal type and a all-other type (Column 6 lines 47 – 65).

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Regarding Claim 11, Adams, Jr. discloses:

- The direction is continuous (Column line 65 – Column 7 line 17, Column 8 line 4 – 56).

Regarding Claim 12, see examiners notes Claim 1.

Regarding Claim 13, see examiners notes Claim 2 – 4.

Regarding Claim 14, see examiners notes Claim 5.

Regarding Claim 15, see examiners notes Claim 7.

Regarding Claim 16, see examiners notes Claim 8.

Regarding Claim 17, see examiners notes Claim 9.

Regarding Claim 18, see examiners notes Claim 10.

Regarding Claim 19, see examiners notes Claim 11.

Regarding Claim 20, see examiners notes Claim 1.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after

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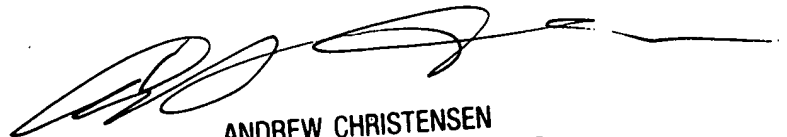
the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric D Wisdahl whose telephone number is (703) 305-4915. The examiner can normally be reached on 9:00 - 6:00 Mon-Thur every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Christensen can be reached on (703) 308-9644. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edw



ANDREW CHRISTENSEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600